Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
11	19236	pars\$6 near9 (table or data or database)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/15 08:17
L2	28	(pars\$6 near9 (table or data or database)) near9 (coulnm or vertical\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/15 08:18
L3	237	(pars\$6 near9 (table or data or database)) near9 (column or vertical\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/15 08:18
L4	0	3 and compress\$6 and continous and ((data adj page) or (series near pages!))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/15 08:19
L5	2	3 and compress\$6 and continuous and ((data adj page) or (series near pages!))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/15 08:19



(11) **EP 1 283 486 A2**

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication:

12.02.2003 Bulletin 2003/07

(51) Int CI.7: G06F 17/30

(21) Application number: 02255444.8

(22) Date of filing: 05.08.2002

(84) Designated Contracting States:

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR Designated Extension States: AL LT LV MK RO SI

(30) Priority: 06.08.2001 US 923498

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 San Mateo, CA 94403 (US)

(74) Representative: DeVile, Jonathan Mark, Dr.

D. Young & Co

21 New Fetter Lane London EC4A 1DA (GB)

(54) Storage of row-column data

(57) Table data (201) is stored by parsing the table data into columns (221, 215, 209) of values, formatting each column into a data stream, and transferring each data stream to a storage device for storage as a continuous strip of data. The strip of data is stored as a file (223, 225; 217, 219; 211, 213) that is not structured as a series of pages. The formatting of the data stream may include compressing the column values to minimize the length of the data strip. A particular compression procedure may be used that derives a code for each value in the column from a number of occurrences of the value in the column and replaces the value in the data stream with the corresponding code.

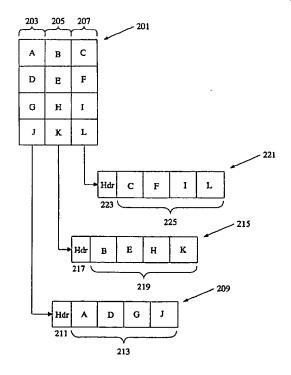


Figure 2A

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
5	19236	pars\$6 near9 (table or data or database)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/15 08:17
L2	28	(pars\$6 near9 (table or data or database)) near9 (coulnm or vertical\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/15 08:18
L3.	237	(pars\$6 near9 (table or data or database)) near9 (column or vertical\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/15 08:18
L4	0	3 and compress\$6 and continous and ((data adj page) or (series near pages!))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/15 08:19
L5	2	3 and compress\$6 and continuous and ((data adj page) or (series near pages!))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON .	2005/12/15 08:19
L6	2	3 and compress\$6 and continuous and ((data adj page) or (series near pages!) or pages!)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/15 08:20
L7	4	3 and compress\$6 and continuous and ((data adj page) or (series near pages!) or page)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/15 08:20

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Relevance scale

Intelligent database caching through the use of page-answers and page-traces

Nabil Kamel, Roger King

December 1992 ACM Transactions on Database Systems (TODS), Volume 17 Issue 4

Publisher: ACM Press

Full text available: pdf(3.08 MB)

Additional Information: full citation, abstract, references, citings, index

In this paper a new method to improve the utilization of main memory systems is presented. The new method is based on prestoring in main memory a number of query answers, each evaluated out of a single memory page. To this end, the ideas of pageanswers and page-traces are formally described and their properties analyzed. The query model used here allows for selection, projection, join, recursive queries as well as arbitrary combinations. We also show how to apply the approach under update ...

Keywords: artificial intelligence, databases, page access

2 Proceedings of the SIGNUM conference on the programming environment for



development of numerical software

March 1979 ACM SIGNUM Newsletter, Volume 14 Issue 1

Publisher: ACM Press

Full text available: pdf(5.02 MB)

Additional Information: full citation

3 Data streams and time-series: Evaluating continuous nearest neighbor queries for



streaming time series via pre-fetching

Like Gao, Zhengrong Yao, X. Sean Wang

November 2002 Proceedings of the eleventh international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(231.86 KB)

Additional Information: full citation, abstract, references, citings, index terms

For many applications, it is important to quickly locate the nearest neighbor of a given time series. When the given time series is a streaming one, nearest neighbors may need to be found continuously at all time positions. Such a standing request is called a

continuous nearest neighbor query. This paper seeks fast evaluation of continuous queries on large databases. The initial strategy is to use the result of one evaluation to restrict the search space for the next. A more fundamental i ...

Keywords: continuous query, nearest neighbor, streaming time series

Technical reports

SIGACT News Staff

January 1980 ACM SIGACT News, Volume 12 Issue 1

Publisher: ACM Press

Full text available: pdf(5.28 MB) Additional Information: full citation

Empirically validated web page design metrics

Melody Y. Ivory, Rashmi R. Sinha, Marti A. Hearst March 2001 Proceedings of the SIGCHI conference on Human factors in computing systems

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(152.07 KB)

A quantitative analysis of a large collection of expert-rated web sites reveals that pagelevel metrics can accurately predict if a site will be highly rated. The analysis also provides empirical evidence that important metrics, including page composition, page formatting, and overall page characteristics, differ among web site categories such as education, community, living, and finance. These results provide an empirical foundation for web site design guidelines and also suggest which me ...

Keywords: Web site design, World Wide Web, automated usability evaluation, empirical studies

Draft Report on the Algorithmic Language ALGOL 68

A. Van Wijngaarden, B. J. Mailloux, J. Peck, C. H. A. Koster

March 1968 ALGOL Bulletin, Issue Sup 26

Publisher: Computer History Museum

Full text available: pdf(6.16 MB) Additional Information: full citation, index terms

Functional Specifications for Typewriter-Like Time-Sharing Terminals

T. A. Dolotta

January 1970 ACM Computing Surveys (CSUR), Volume 2 Issue 1

Publisher: ACM Press

Full text available: pdf(2.45 MB) Additional Information: full citation, references, citings, index terms

8 Recent technical reports

SIGACT News Staff

July 1979 ACM SIGACT News, Volume 11 Issue 1

Publisher: ACM Press

Full text available: pdf(1.77 MB) Additional Information: full citation

Exploiting inter-operation parallelism in XPRS



Wei Hong

June 1992 ACM SIGMOD Record, Proceedings of the 1992 ACM SIGMOD international conference on Management of data SIGMOD '92, Volume 21 Issue 2

Publisher: ACM Press

Full text available: pdf(1.11 MB)

Additional Information: full citation, abstract, references, citings, index terms

In this paper, we study the scheduling and optimization problems of parallel query processing using interoperation parallelism in a shared-memory environment and propose our solutions for XPRS. We first study the scheduling problem of a set of a continuous sequence of independent tasks that are either from a bushy tree plan of a single query or from the plans of multiple queries, and present a clean and simple scheduling algorithm. Our scheduling algorithm achieves maximum resource utilizat ...

10 Improving statistical language model performance with automatically generated word



hierarchies

John G. McMahon, Francis J. Smith

June 1996 Computational Linguistics, Volume 22 Issue 2

Publisher: MIT Press

Full text available: pdf(2.02 MB) Additional Information: full citation, abstract, references, citings

An automatic word-classification system has been designed that uses word unigram and bigram frequency statistics to implement a binary top-down form of word clustering and employs an average class mutual information metric. Words are represented as structural tags---n-bit numbers the most significant bit-patterns of which incorporate class information. The classification system has revealed some of the lexical structure of English, as well as some phonemic and semantic structure. The syst ...

11 Reflections on building two Go programs



Bruce Wilcox

October 1985 ACM SIGART Bulletin, Issue 94

Publisher: ACM Press

Full text available: pdf(1.42 MB)

Additional Information: full citation, abstract, references

From 1972 to 1979 I co-designed and built what became the world's strongest computer Go program, the Reitman-Wilcox Go Program [1]. It took 7 person-years, 8K lines of LISP, 3 megabytes of memory, and an IBM mainframe. Recently I constructed a similar program, called NEMESIS...the Go Master (tm). It has taken 1 person-year, 13.5K lines of C, 146 kilobytes of memory, and an IBM-PC. They play at a similar strength and by similar means. This article discusses both how I went about reengineering the ...

12 Session P11: visualization systems and image-based visualization: Sea of images Daniel G. Aliaga, Thomas Funkhouser, Dimah Yanovsky, Ingrid Carlbom October 2002 Proceedings of the conference on Visualization '02



Publisher: IEEE Computer Society

Full text available: pdf(12.25 MB)

Additional Information: full citation, abstract, references, citings, index terms

A long-standing research problem in computer graphics is to reproduce the visual experience of walking through a large photorealistic environment interactively. On one hand, traditional geometry-based rendering systems fall short of simulating the visual realism of a complex environment. On the other hand, image-based rendering systems have to date been unable to capture and store a sampled representation of a large environment with complex lighting and visibility effects. In this paper, we prese ...

Keywords: capture, image-based rendering, interactive, reconstruction, walkthrough

13 Research sessions: similarity and matching: Continually evaluating similarity-based



pattern queries on a streaming time series Like Gao, X. Sean Wang

June 2002 Proceedings of the 2002 ACM SIGMOD international conference on Management of data

Publisher: ACM Press

Full text available: pdf(1.22 MG)

Additional Information: full citation, abstract, references, citings, index terms

In many applications, local or remote sensors send in streams of data, and the system needs to monitor the streams to discover relevant events/patterns and deliver instant reaction correspondingly. An important scenario is that the incoming stream is a continually appended time series, and the patterns are time series in a database. At each time when a new value arrives (called a time position), the system needs to find, from the database, the nearest or near neighbors of the incoming time serie ...

14 Performances of clustering policies in object bases



Adel Shrufi

November 1994 Proceedings of the third international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(967, 44 KG) Additional Information: full citation, abstract, references, index terms

In this paper, we address the problem of clustering graphs in object-oriented databases. Unlike previous studies which focused only on a workload consisting of a single operation, this study tackles the problem when the workload is a set of operations (method and queries) that occur with a certain probability. Thus, the goal is to minimize the expected cost of an operation in the workload, while maintaining a similarly low cost for each individual operation class. To this end, we ...

Keywords: graph partitioning, object-oriented database systems, performance analysis, storage techniques

15 A dynamic scheduling method for irregular parallel programs



Steven Lucco

July 1992 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 1992 conference on Programming language design and implementation PLDI '92, Volume 27 Issue 7

Publisher: ACM Press

Full text available: pdf(1.24 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper develops a methodology for compiling and executing irregular parallel programs. Such programs implement parallel operations whose size and work distribution depend on input data. We show a fundamental relationship between three quantities that characterize an irregular parallel computation: the total available parallelism, the optimal grain size, and the statistical variance of execution times for individual tasks. This relationship yields a dynamic scheduling al ...

16

Papers: learning: Exploiting a sensed environment to improve human-agent





communication

Shana Watters, Tim Miller, Praveen Balachandran, William Schuler, Richard Voyles July 2005 Proceedings of the fourth international joint conference on Autonomous agents and multiagent systems AAMAS '05

Publisher: ACM Press

Full text available: pdf(274.46 KB) Additional Information: full citation, abstract, references, index terms

This paper describes an implemented robotic agent architecture in which the environment. as sensed by the agent, is used to guide the recognition of spoken and gestural directives given by a human user. The agent recognizes these directives using a probabilistic language model that conditions probability estimates for possible directives on visually-, proprioceptively-, or otherwise-sensed properties of entities in its environment, and updates these probabilities when these properties change. Th ...

Keywords: language modeling, multi-modal interfaces, robotics, sensor fusion, spoken language interfaces

17 ABCL/onEM-4: a new software/hardware architecture for object-oriented concurrent





computing on an extended dataflow supercomputer Masahiro Yasugi, Satoshi Matsuoka, Akinori Yonezawa

August 1992 Proceedings of the 6th international conference on Supercomputing

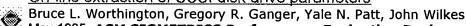
Publisher: ACM Press

Full text available: pdf(1.39 MB)

Additional Information: full citation, abstract, references, citings, index terms

The trend towards object-oriented software construction is becoming more and more prevalent, and parallel programming cannot be an exception. In the context of parallel computation, it is often natural to model the computation as message passing between autonomous, concurrently active objects. The problem was, as some previous studies had indicated, that the overhead from message reception to dynamic method dispatching consumes a significant amount of execution time (e.g., as much as 4000 m ...

18 On-line extraction of SCSI disk drive parameters



May 1995 ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1995 ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems SIGMETRICS '95/PERFORMANCE '95, Volume 23 Issue 1

Publisher: ACM Press

Full text available: pdf(1.21 MB)

Additional Information: full citation, abstract, references, citings, index terms

Sophisticated disk scheduling algorithms require accurate, detailed disk drive specifications, including data about mechanical delays, on-board caching and prefetching algorithms, command and protocol overheads, and logical-to-physical block mappings. Comprehensive disk models used in storage subsystem design require similar levels of detail. We describe a suite of general-purpose algorithms and techniques for acquiring the necessary information from a SCSI disk drive. Using only the ANSI-standa ...

19 The Graft-Host method for design change

Guillermo Arango, Eric Schoen, Robert Pettengill, Josiah Hoskins

May 1993 Proceedings of the 15th international conference on Software Engineering

Publisher: IEEE Computer Society Press

Full text available: pdf(1,11 MB)

Additional Information: full citation, references, citings

²⁰ Limitations of cache prefetching on a bus-based multiprocessor



Dean M. Tullsen, Susan J. Eggers

May 1993 ACM SIGARCH Computer Architecture News, Proceedings of the 20th annual international symposium on Computer architecture ISCA '93, Volume 21 Issue 2

Publisher: ACM Press

Full text available: pdf(1.10 MB)

Additional Information: full citation, abstract, references, citings, index

Compiler-directed cache prefetching has the potential to hide much of the high memory latency seen by current and future high-performance processors. However, prefetching is not without costs, particularly on a multiprocessor. Prefetching can negatively affect bus utilization, overall cache miss rates, memory latencies and data sharing. We simulated the effects of a particular compiler-directed prefetching algorithm, running on a bus-based multiprocesssor. We showed that, despite a high mem ...

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1 Proceedings of the SIGNUM conference on the programming environment for

development of numerical software

March 1979 ACM SIGNUM Newsletter, Volume 14 Issue 1

Publisher: ACM Press

Full text available: mbdf(5.02 MB)

Additional Information: full citation

Technical reports

SIGACT News Staff

January 1980 ACM SIGACT News, Volume 12 Issue 1

Publisher: ACM Press

Full text available: pdf(5.28 MB)

Additional Information: full citation

Recent technical reports



SIGACT News Staff

July 1979 ACM SIGACT News, Volume 11 Issue 1

Publisher: ACM Press

Full text available: pdf(1.77 MB) Additional Information: full citation

Improving statistical language model performance with automatically generated word hierarchies



John G. McMahon, Francis J. Smith

June 1996 Computational Linguistics, Volume 22 Issue 2

Publisher: MIT Press

Full text available: pdf(2.02 MB) Publisher Site

Additional Information: full citation, abstract, references, citings

An automatic word-classification system has been designed that uses word unigram and bigram frequency statistics to implement a binary top-down form of word clustering and employs an average class mutual information metric. Words are represented as structural tags---n-bit numbers the most significant bit-patterns of which incorporate class

information. The classification system has revealed some of the lexical structure of English, as well as some phonemic and semantic structure. The syst ...

Reflections on building two Go programs

Bruce Wilcox

October 1985 ACM SIGART Bulletin, Issue 94

Publisher: ACM Press

Full text available: pdf(1.42 MB) Additional Information: full citation, abstract, references

From 1972 to 1979 I co-designed and built what became the world's strongest computer Go program, the Reitman-Wilcox Go Program [1]. It took 7 person-years, 8K lines of LISP, 3 megabytes of memory, and an IBM mainframe. Recently I constructed a similar program, called NEMESIS...the Go Master (tm). It has taken 1 person-year, 13.5K lines of C, 146 kilobytes of memory, and an IBM-PC. They play at a similar strength and by similar means. This article discusses both how I went about reengineering the ...

6 Papers: learning: Exploiting a sensed environment to improve human-agent



communication

Shana Watters, Tim Miller, Praveen Balachandran, William Schuler, Richard Voyles July 2005 Proceedings of the fourth international joint conference on Autonomous agents and multiagent systems AAMAS '05

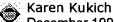
Publisher: ACM Press

Full text available: 📆 pdf(274.46 KB) Additional Information: full citation, abstract, references, index terms

This paper describes an implemented robotic agent architecture in which the environment, as sensed by the agent, is used to guide the recognition of spoken and gestural directives given by a human user. The agent recognizes these directives using a probabilistic language model that conditions probability estimates for possible directives on visually-, proprioceptively-, or otherwise-sensed properties of entities in its environment, and updates these probabilities when these properties change. Th ...

Keywords: language modeling, multi-modal interfaces, robotics, sensor fusion, spoken language interfaces

Technique for automatically correcting words in text



8

December 1992 ACM Computing Surveys (CSUR), Volume 24 Issue 4

Publisher: ACM Press

Full text available: pdf(6.23 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent work correction. In response to the first problem, efficient patternmatching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statisticallanguage models, word recognition and correction

ABCL/onEM-4: a new software/hardware architecture for object-oriented concurrent





computing on an extended dataflow supercomputer

Masahiro Yasuqi, Satoshi Matsuoka, Akinori Yonezawa

August 1992 Proceedings of the 6th international conference on Supercomputing

Publisher: ACM Press

Full text available: pdf(1.39 MB)

Additional Information: full citation, abstract, references, citings, index terms

The trend towards object-oriented software construction is becoming more and more prevalent, and parallel programming cannot be an exception. In the context of parallel computation, it is often natural to model the computation as message passing between autonomous, concurrently active objects. The problem was, as some previous studies had indicated, that the overhead from message reception to dynamic method dispatching consumes a significant amount of execution time (e.g., as much as 4000 m ...

9 Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith

February 1980 ACM SIGART Bulletin, Issue 70

Publisher: ACM Press

Full text available: pdf(13.13 MB) Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

10 Unification encodings of grammatical notations

Stephen G. Pulman

September 1996 Computational Linguistics, Volume 22 Issue 3

Publisher: MIT Press

Full text available: pdf(2.01 MB) Additional Information: full citation, abstract, references, citings Publisher Site

This paper describes various techniques for enriching unification-based grammatical formalisms with notational devices that are compiled into categories and rules of a standard unification grammar. This enables grammarians to avail themselves of apparently richer notations that allow for the succinct and relatively elegant expression of grammatical facts, while still allowing for efficient processing for the analysis or synthesis of sentences using such grammars.

11 Special issue: Al in engineering

D. Sriram, R. Joobbani

April 1985 ACM SIGART Bulletin, Issue 92

Publisher: ACM Press

Additional Information: full citation, abstract Full text available: pdf(8.79 MB)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

12 Special issue on word sense disambiguation: Introduction to the special issue on word sense disambiguation: the state of the art

Nancy Ide, Jean Véronis

March 1998 Computational Linguistics, Volume 24 Issue 1



Publisher: MIT Press

Full text available:

pdf(3.44 MB) Additional Information: full citation, references, citings Publisher Site

13 Computing curricula 2001

September 2001 Journal on Educational Resources in Computing (JERIC)

Publisher: ACM Press

Full text available: pdf(613.63 KB) html(2.78 KB)

Additional Information: full citation, references, citings, index terms

14 Special section: Reasoning about structure, behavior and function

B. Chandrasekaran, Rob Milne
July 1985 ACM SIGART Bulletin, Issue 93

Publisher: ACM Press

Full text available: pdf(5,13 MB) Additional Information: full citation, abstract, references

The last several years' of work in the area of knowledge-based systems has resulted in a deeper understanding of the potentials of the current generation of ideas, but more importantly, also about their limitations and the need for research both in a broader framework as well as in new directions. The following ideas seem to us to be worthy of note in this connection.

15 Revised Report of the Algorithmic Language Algol 68

A. van Wijngaarden

August 1981 ALGOL Bulletin, Issue Sup 47

Publisher: Computer History Museum

Full text available: pdf(9.20 MB) Additional Information: full citation, index terms

16 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

17 The FINITE STRING Newsletter: Abstracts of current literature

Computational Linguistics Staff

January 1987 Computational Linguistics, Volume 13 Issue 1-2

Publisher: MIT Press

Full text available: pdf(6.15 MB) Additional Information: full citation Publisher Site

18 Text categorization for multi-page documents: a hybrid naive Bayes HMM approach Paolo Frasconi, Giovanni Soda, Alessandro Vullo

January 2001 Proceedings of the 1st ACM/IEEE-CS joint conference on Digital



libraries **Publisher: ACM Press**

Full text available: 📆 pdf(280.05 KB) Additional Information: full citation, abstract, references, index terms

Text categorization is typically formulated as a concept learning prob lem where each instance is a single isolated document. In this paper we are interested in a more general formulation where documents are organized as page sequences, as naturally occurring in digital libraries of scanned books and magazines. We describe a method for classifying pages of sequential OCR text documents into one of several assigned categories and suggest that taking into account contextual information provid ...

Keywords: hidden Markov models, multi-page documents, naive Bayes classifier, text categorization

19 Data compression

Debra A. Lelewer, Daniel S. Hirschberg

September 1987 ACM Computing Surveys (CSUR), Volume 19 Issue 3

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(3.61 MB) terms, review

This paper surveys a variety of data compression methods spanning almost 40 years of research, from the work of Shannon, Fano, and Huffman in the late 1940s to a technique developed in 1986. The aim of data compression is to reduce redundancy in stored or communicated data, thus increasing effective data density. Data compression has important application in the areas of file storage and distributed systems. Concepts from information theory as they relate to the goals and evaluation of data ...

20 Intelligent database caching through the use of page-answers and page-traces



Nabil Kamel, Roger King

December 1992 ACM Transactions on Database Systems (TODS), Volume 17 Issue 4

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(3.08 MB) terms

In this paper a new method to improve the utilization of main memory systems is presented. The new method is based on prestoring in main memory a number of query answers, each evaluated out of a single memory page. To this end, the ideas of pageanswers and page-traces are formally described and their properties analyzed. The query model used here allows for selection, projection, join, recursive queries as well as arbitrary combinations. We also show how to apply the approach under update ...

Keywords: artificial intelligence, databases, page access

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IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference

Proceeding

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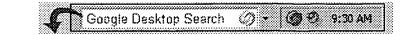
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